

ABSTRACT

A substrate (1) for spatially selective micron and nanometer scale deposition and/or
5 reaction, which has a support (3), a conductive layer (5) on the support, a dielectric
layer (7) to hold an electrostatic charge pattern such as a photoconductive layer of a
material which dissipates an electric charge upon receiving incident radiation
thereon, and a chemically functional layer (9), such that electrostatic charge patterns
may be formed in a predetermined manner upon the substrate to influence the
10 movement of charged droplets in an emulsion (15) on the substrate. The chemically
functional layer either provides a surface for chemical functionalisation of the
substrate or prevents access or reaction to the dielectric or photoconductive layer.